Operating Instructions
Bedienungsanleitung
Mode d'emploi
Istruzioni per l'uso

STEREO TURNTABLE
STEREO-PLATTENSPIELER
PLATINE TOURNE-DISQUE STEREO
GIRADISCHI STEREO

PL-707

English; Page 1
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Original

Rose wood and graind vinyl cabinet

Thank you for buying this Pioneer product.
Please read through these operating instructions and then you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
These operating instructions are based on the model HE, and they can be used for the HB, HP, KUT, KCT, S, S/G models. The differences between the models are given below.
Depending upon the model, the design of the power plug and the power outlet differs.

HE model:
For Europe ('HE' stamped on packing case): A 2-point (220 V/240 V) voltage selector switch is provided.

HB model:
For U.K. ('HB' stamped on packing case): A 2-point (220 V/240 V) voltage selector switch is provided.

HP model:
For Australia ('HP' stamped on packing case): A 2-point (220 V/240 V) voltage selector switch is provided.

KUT and KCT models:
For U.S.A. and Canada ('KUT' or 'KCT' stamped on packing case): power line voltage is 120 volts.

NOTE:
Since a cartridge is not provided with the unit, mount your own cartridge before use, following the instructions laid down in CARTRIDGE MOUNTING.

S and S/G models:
For destinations excluding above (S or S/G stamped on packing case): A 4-point (110 V /120 V/220 V/240 V) voltage selector switch is provided.

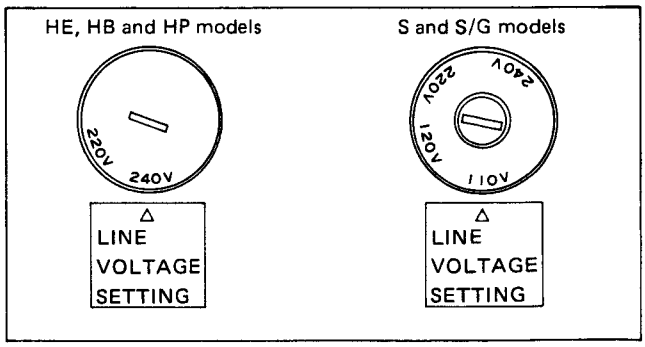
IMPORTANT NOTICE [For KUT and KCT models]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep in a secure area. This is for your security.

LINE VOLTAGE SELECTOR SWITCH
[Only HE, HB, HP, S and S/G models are provided with this switch but KUT and KCT models are not provided with this switch]

The line voltage selector switch is located on the top of the cabinet of this turntable. Before your turntable is shipped from the factory, the switch is set to the power requirements of the turntable's destination. Check that it is set properly before plugging the power cord into the outlet. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selectoror switch as follows:

- Provide yourself with a medium-sized screwdriver. Insert the tip of the screwdriver into the groove of the selector switch and turn it so that the power voltage marking of your area points to the arrow.



WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

ENGLISH
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PIONEER®

SAFETY INSTRUCTIONS [FOR KUT MODEL]

READ INSTRUCTIONS — All the safety and operating instructions should be read before the appliance is operated.

RETAIN INSTRUCTIONS — The operating instructions should be retained for future reference.

HEED WARNING — All warnings on the appliance and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

WATER AND MOISTURE — The appliance should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

LOCATION — The appliance should be installed in a stable location.

WALL OR CEILING MOUNTING — The appliance should not be mounted to a wall or ceiling.

VENTILATION — The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

HEAT — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

POWER SOURCES — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

POWER-CORD PROTECTION — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

CLEANING — The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

POWER LINES — An outdoor antenna should be located away from power lines.

NONUSE PERIODS — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

OBJECT AND LIQUID ENTRY — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

DAMAGE REQUIRING SERVICE — The appliance should be serviced by Pioneer authorized service center or qualified service personnel when:

- The power-supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped; or the enclosure damaged.

SERVICING — The user should not attempt to service the appliance beyond that described in the operating instructions. For all other servicing, contact the nearest Pioneer authorized service center.

OUTDOOR ANTENNA GROUNDING — If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.
In the U.S.A. section 810 of the National Electrical Code, ANSI/NEPA No. 70-1981, provides information with respect to proper groundig of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. A.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS

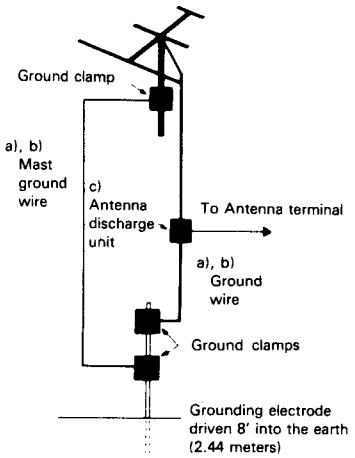


Fig. A

a) Use No. 10 AWG (5.3 mm²) copper or No. 8 AWG (8.4 mm²) aluminum or No. 17 AWG (1.0 mm²) copper-clad steel or bronze wire, or larger as ground wires for both mast and lead-in.
b) Secure lead-in wire from antenna to antenna discharge unit and mast ground wire to house with stand-off insulators, spaced from 4 feet (1.22 meters) to 6 feet (1.83 meters) apart.
c) Mount antenna discharge unit as closely as possible to where lead-in enters house.

IMPORTANT [FOR KUT MODEL]

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT

To prevent electric shock, do not remove cover. No user serviceable parts inside, refer servicing to qualified service personnel. Always disconnect all the equipment from the mains supply when disconnecting the signal leads. The power cord should be connected last, make sure that the power switch is off.
Unplug the set from the wall socket when it is not to be used for an extended period of time.

[FOR USE IN UNITED KINGDOM AND AUSTRALIA]

CAUTION 240 V: Mains supply voltage is factory adjusted at 240 V.

[FOR USE IN UNITED KINGDOM]

The wires in this mains lead are coloured in accordance with the following cord:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured marking identifying the terminals in your plug proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Equipment sold in the U.K. is not supplied with a power plug.

"Information to User"

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacture's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient the receiving antenna
- relocate the turntable with respect to the receiver
- move the turntable away from the receiver
- plug the turntable into a different outlet so that turntable and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Comission helpful:
"How to Identify and Resolve Ratio-TV Interference Problems".
This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

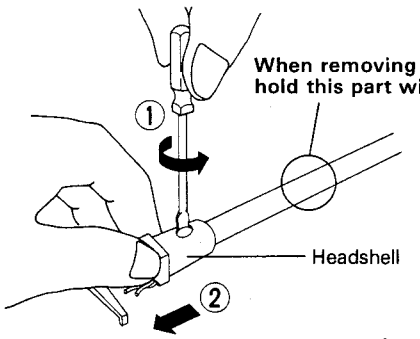
The above instructions apply only to units which will be operated in the United States.

ENGLISH

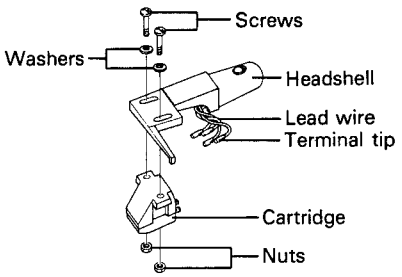
CARTRIDGE MOUNTING [Applicable to KUT and KCT models]

Since this turntable does not come with a cartridge, provide one of your own choosing and attach it to the headshell as below. This turntable uses a cartridge which weighs between 3 and 8 g.

1. **Remove the headshell from the tonearm**
   Use a small screwdriver to rotate the anchoring screw in the direction indicated by the arrow to remove the headshell.

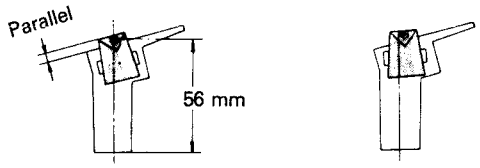


2. **Connect the headshell leads to the cartridge**
   The polarities of the leads are color-coded.
   Plug them into the correct terminal tips.
   - Red: Right channel (R)
   - Green: Right channel ground (RG)
   - White: Left channel (L)
   - Blue: Left channel ground (LG)
3. **Attach the cartridge to the headshell**
   Attach the screws, nuts and washers provided to the cartridge. Keep the screws loose.



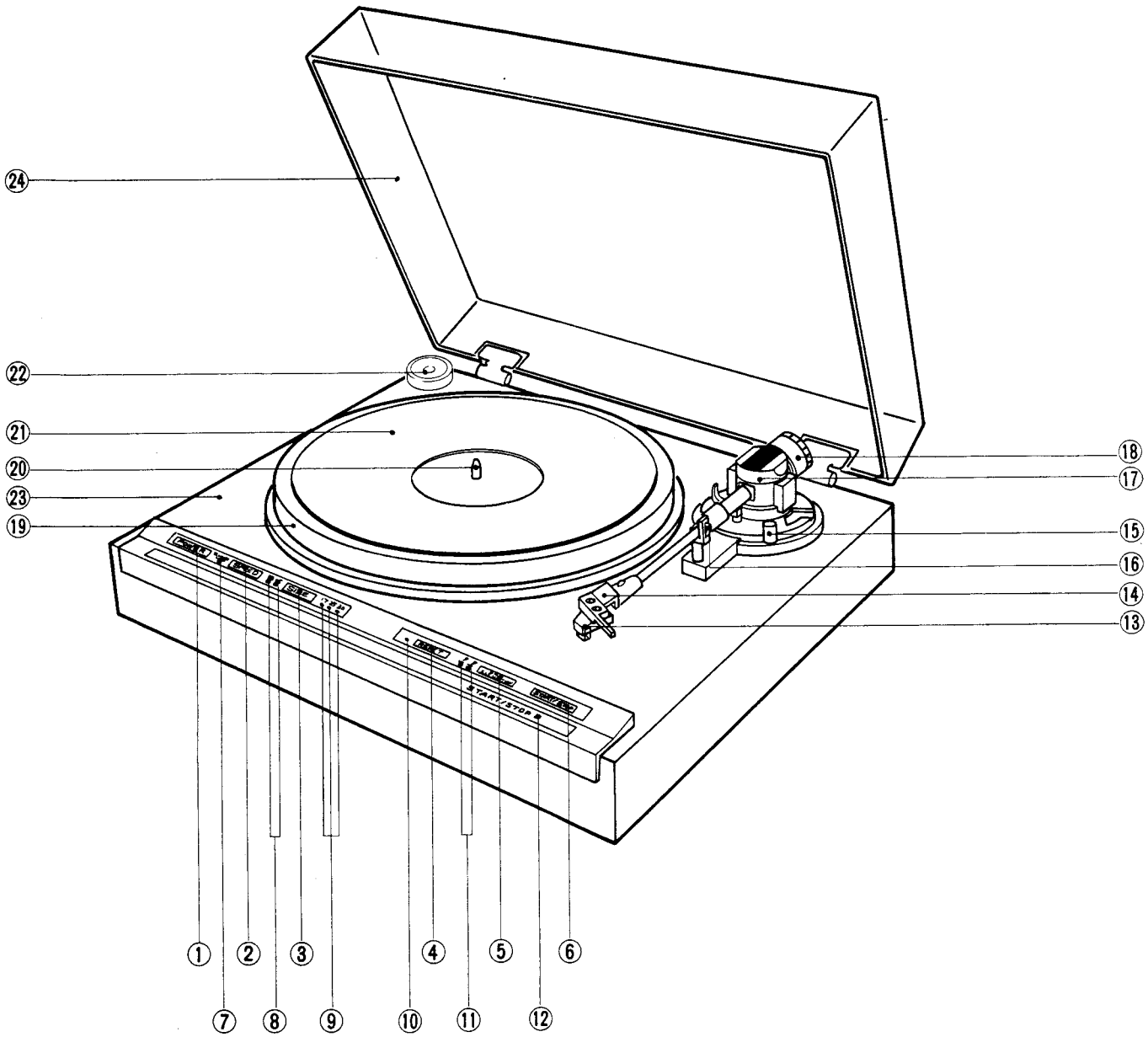
4. **Adjust the mounting position of the cartridge**
   (1) Stylus position: As shown in the figure, the stylus and headshell dimension is 56 mm.
   (2) Compensating for bending:
   As shown in the figure, make the cartridge parallel to the headshell.

(Acceptable mounting) (Unacceptable mounting)



5. After having tightened up the screws, attach the headshell to the tonearm (following the procedure given in step 1 in reverse).

PANEL FACILITIES



① POWER SWITCH

Press this switch to turn the power on and off.
[ON] (depressed position) : Power is switched ON.
[OFF] (released position) : Power is switched OFF.
When the POWER switch is set to ON, the following switches are set automatically.

- SPEED switch — [33]
- RECORD SIZE switch — [30]
- REPEAT switch — [OFF]

② SPEED SWITCH

Set this switch in accordance with the speed of the record which is to be played.
[33] indicator lights:
For playing 33-1/3 rpm records.
[45] indicator lights:
For playing 45 rpm records.

③ RECORD SIZE SWITCH

Set this switch in accordance with the size of the record which is to be played.
[12"30] indicator lights:
For playing 30 cm (12") records.
[10"25] indicator lights:
For playing 25 cm (10") records.
[7"17] indicator lights:
For playing 17 cm (7") records.

④ REPEAT SWITCH

Press this switch so that the indicator lights for repeat play.

⑤ ARM ELEVATION SWITCH

- Use the switch to manual play.
- Use the switch to suspend record play temporarily.
- Use the switch when changing the tracks during manual play.

[▼] indicator lights:
The tonearm rises (the stylus moves away from the record).
[▼] indicator lights:
The tonearm descends (the stylus is lowered onto the record).

⑥ START/STOP SWITCH

Press this switch when starting auto play or when stopping play

⑦ QUARTZ LOCK INDICATOR

This lights when the platter is rotating at exactly 33-1/3 or 45 revolutions per minute.

⑧ SPEED INDICATORS (33, 45)

These indicate the platter speed.
[33] lights:
Platter is rotating at 33-1/3 rpm.
[45] lights:
Platter is rotating at 45 rpm.

⑨ SIZE INDICATORS (30, 25, 17)

These indicate the record size.
[12"30] lights – 30 cm (12")
[10"25] lights – 25 cm (10")
[7"17] lights – 17 cm (7")

⑩ REPEAT INDICATOR (REPEAT)

This indicator lights up when the repeat play function is utilized.

⑪ ARM ELEVATION INDICATOR (▼ · ▼)

These indicators indicate whether the tonearm is the raised (up) or lowered (down) position.
[▼] lights:
The tonearm rises (the stylus moves away from the record).
[▼] lights:
The tonearm descends (the stylus is lowered onto the record).

⑫ START/STOP INDICATOR

- This lights when the START/STOP switch has been pressed and auto play has been started.
- This lights when the START/STOP switch is pressed to suspend play.

⑬ CARTRIDGE (PC-6MC)

NOTE:
A cartridge is not provided with the KUT and KCT models and so your own cartridge should be mounted, following the instructions laid down in CARTRIDGE MOUNTING.

⑭ HEADSHELL

⑮ ANTI-SKATE CONTROL

This is rotated when performing the anti-skating adjustment.

⑯ ARM REST

This serves to hold and clamp the tonearm. When moving the tonearm, release the clamp.

⑰ TONEARM

⑱ TRACKING FORCE ADJUSTMENT WEIGHT

This is used when adjusting the tracking force.

⑲ PLATTER

⑳ PLATTER SHAFT

㉑ RUBBER MAT

㉒ EP ADAPTER

This is used when playing records without a "middle."

㉓ CABINET

㉔ DUST COVER

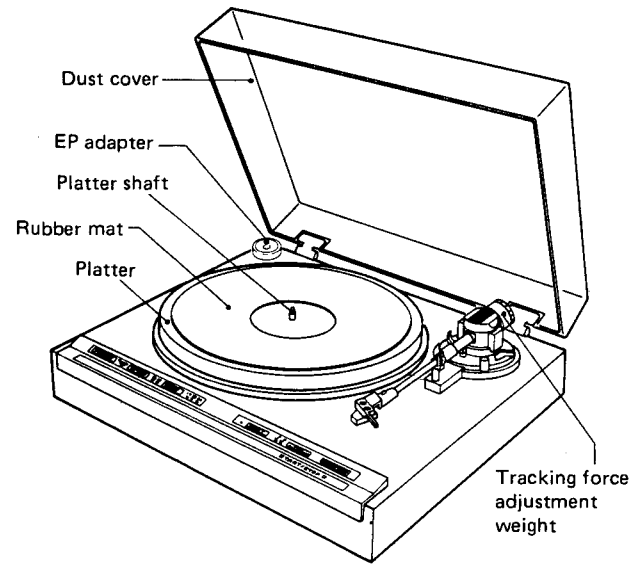
ENGLISH

OPERATIONS BEFORE USE

(Before using your turntable, carry out the instructions in Step 1 through Step 5 .)

STEP 1 ASSEMBLING THE TURNTABLE

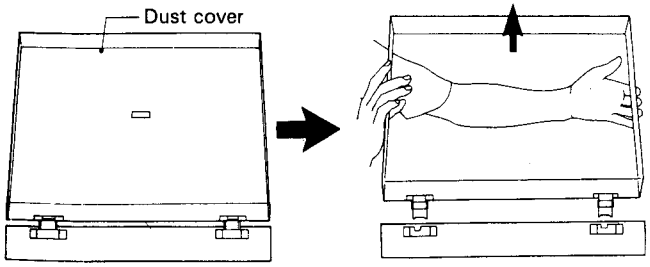
Figure of fully assembled turntable



(1) Removing the dust cover.

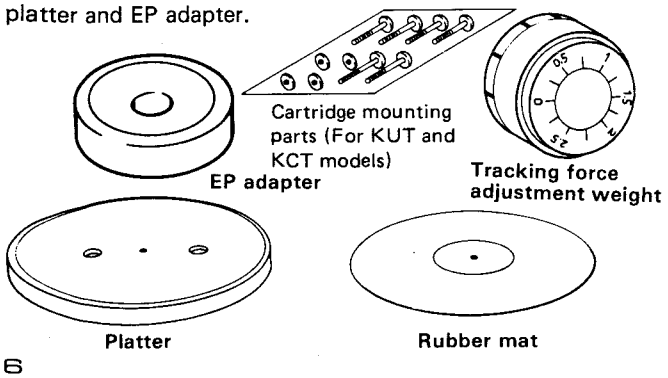
1. Open the dust cover as far as it will go.
2. Hold both sides of the dust cover and remove it from the cabinet by pulling it up.

NOTE:
Take care not to mark or scratch the dust cover which you have now removed.



(2) Checking the accessories and mounting parts.

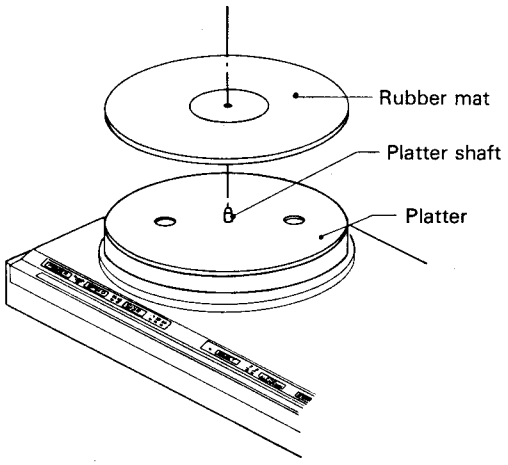
Take out the rubber mat, tracking force adjustment weight, platter and EP adapter.



(3) Mounting the platter and rubber mat.

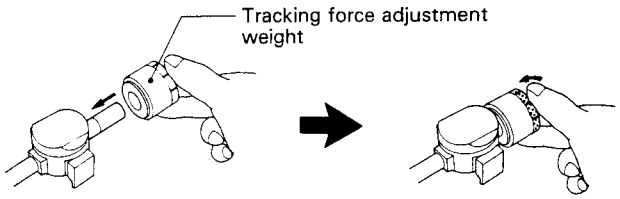
1. Place the platter over the platter shaft.
2. Place the rubber mat on top of the platter.

NOTE:
When mounting the platter, take care not to bump it into the platter shaft, the cabinet and the tonearm.



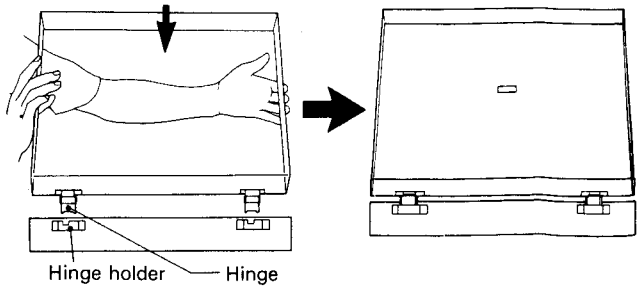
(4) Attaching the tracking force adjustment weight.

1. Insert the weight over the end of the weight shaft with the scale side turned in front.
2. Push it a short way along the shaft and rotate the weight part (indicated as ▒▒▒ in figure) in the direction indicated by the arrow for two or three turns.

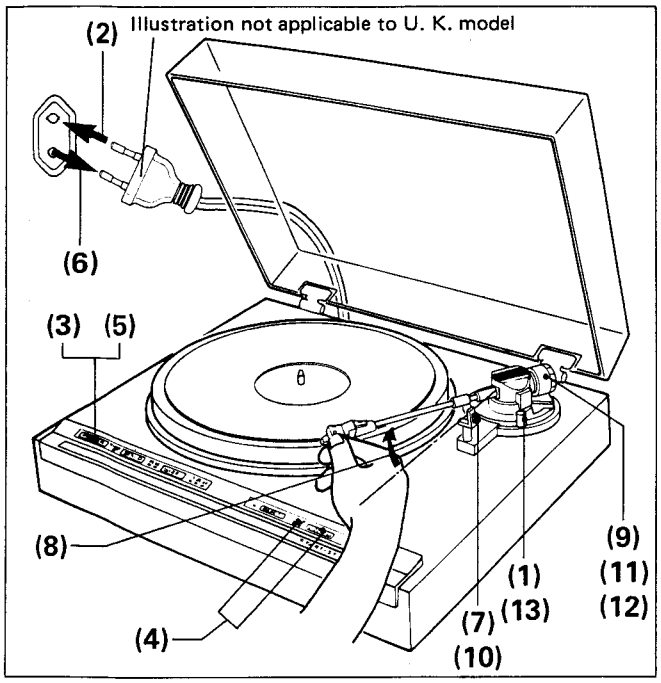


(5) Mounting the dust cover.

1. Hold both sides of the dust cover and slide the hinges into the cabinet's hinge holders.
2. Push down until the dust cover goes no further.

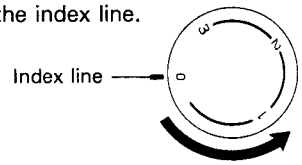


STEP 2 ADJUSTING THE TRACKING FORCE AND ANTI-SKATING



(1) Setting the ANTI-SKATE control to [0].

Rotate the control in the direction indicated by the arrow and align [0] with the index line.



(2) Connect the power plug to the AC outlet.

(3) Press the POWER switch and switch on the power.

Set this switch to the depressed position.

(4) Check that the [▼] ARM ELEVATION indicator is lighted.

If the [▼] indicator is lighted, press the ARM ELEVATION switch to make the [▼] indicator light.

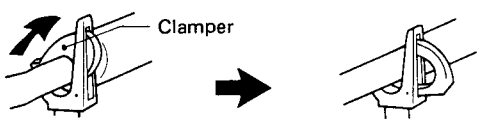
(5) Release the POWER switch to the OFF position to switch off the power.

(6) Disconnect the power plug from the AC outlet.

(7) Releasing the arm rest.

Move the arm rest in the direction of the arrow by hand.

NOTE.
Hold the tonearm with your other hand since it may move.

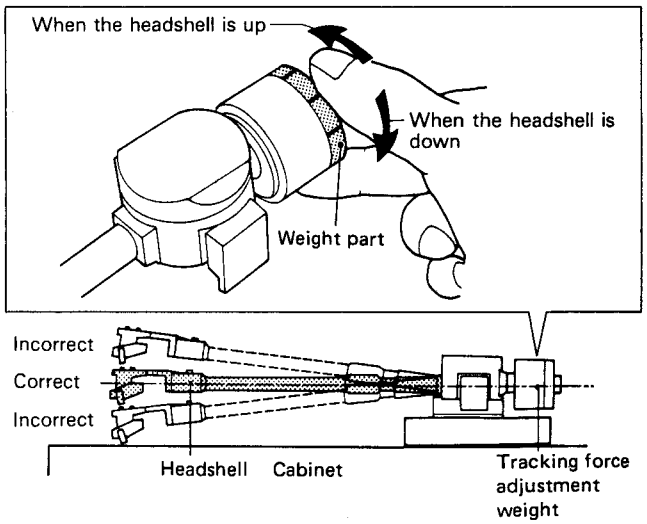


(8) Moving the tonearm.

Move the tonearm to between the arm rest and platter.

(9) Attaining the horizontal balance (make the tonearm parallel).

As shown in the figure, rotate the weight part (indicated as ▒▒▒ in figure) of the tracking force adjustment weight in the direction indicated by the arrow and adjust it so that the tonearm remains parallel to the cabinet when it is released.

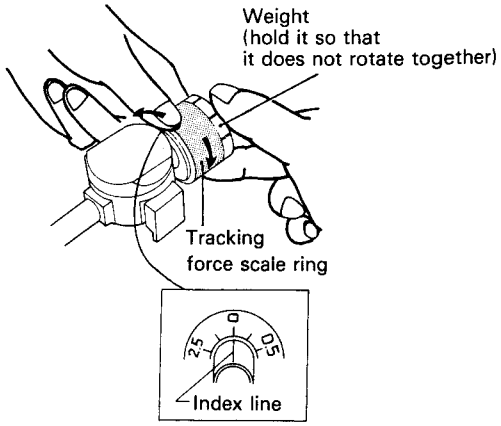


(10) Anchoring the tonearm to the arm rest.

(11) Setting the tracking force scale ring to [0].

Rotate only the tracking force scale ring (indicated as ▒▒▒ in figure) of the tracking force adjustment weight in either of the directions shown by the arrows and align [0] with the index line.

NOTE:
- *Hold the weight part with your other hand to prevent it from rotating with the ring.*
- *Once the weight part has been rotated, attain the horizontal balance again as under section (9).*

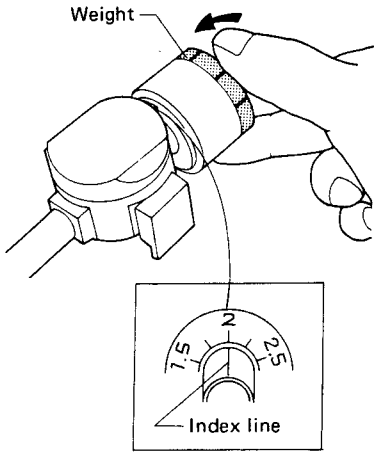


ENGLISH

(12) Adjusting the tracking force.

Rotate the weight (indicated as ▒▒▒ in figure) in the direction indicated by the arrow (the tracking force scale ring also rotates together) and align the 2 position on the scale ring with the index line.

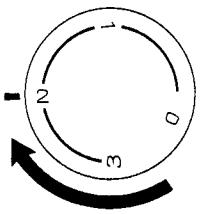
- On the KUT and KCT models adjust to the same figure as the correct tracking force of the cartridge mounted. (For instance, if this force is 1 g, then adjust the "1" to the index line.)
- One scale unit on the tracking force scale ring is 0.25 g.
- A tracking force of 3 g is applied with every turn of the weight.



(13) Adjusting the anti-skating.

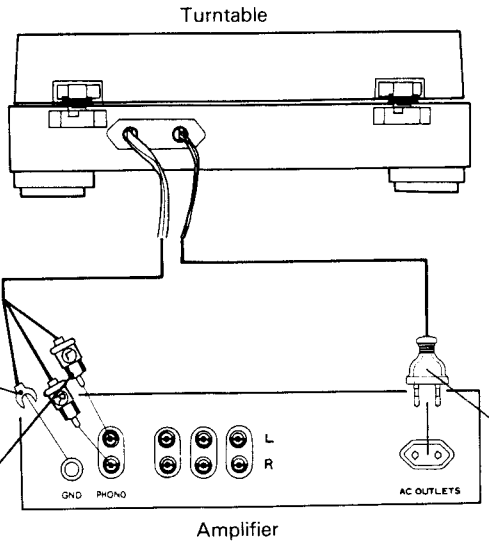
Rotate the anti-skating control in the direction of the arrow and align the "2" point on the control with the index line.

- On the KUT and KCT models adjust to the same figure as the corrct tracking force of the cartridge mounted. (For instance, if this force is 1 g, then adjust the "1" to the index line.)



STEP 3 CONNECTING THE TURNTABLE AND AMPLIFIER

Connecting the ground wire
Attach the metal fitting onto the amplifier ground (GND) terminal.



Connecting the output cords
Insert the plugs into the amplifier's "PHONO" input terminals.

- Connect the white plug to the left (L) channel and the red plug to the right (R) channel.
- Insert the plugs as far as they will go.

Connecting the power cord
Connect the power plug to the auxiliary "AC OUTLET" on the amplifier or to a household power outlet.

Illustration not applicable to U. K. model

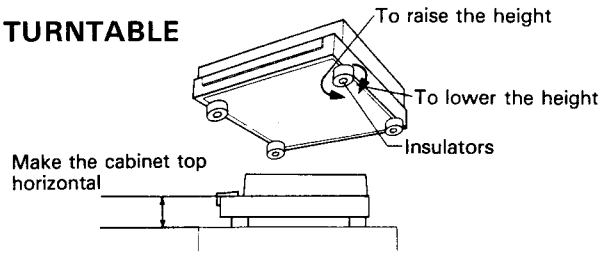
STEP 4 INSTALLING THE TURNTABLE

Take note of the following points and install the turntable properly. Find a location which:

- Is horizontal and flat.
- Is characterized by minimal floor vibration or is not affected by any vibrations transmitted.
- Is not affected by high sound pressures or vibrations from the speaker system.
  (Do not install the turntable immediately in front of, or on top of, the speakers.)
- Allows easy operation and gives visible access to the record and stylus.
- Is near to the stereo amplifier.
  (Install the turntable within a range where the connecting cords reach the terminals on the amplifier.)
- Is not directly exposed to direct sunlight or heat from heating appliances.
  (Do not install the turntable near a heater or on a window ledge exposed to the sun.
- Is not exposed to dust and dirt.
- Is free from damp and moist air.

STEP 5 HORIZONTAL ADJUSTMENT OF THE TURNTABLE

Rotate the four insulators provided on the unit's bottom panel to adjust the height of the cabinet and make the cabinet top horizontal. When rotating these insulators, lift up the cabinet slightly first and then proceed.



After having carried out steps [1] through [5], read through the following checkpoints.

Check the tracking force and anti-skating adjustments.

- **The ANTI-SKATE control must be aligned with the same number as the tracking force.**

The following trouble is apparent when the number does not tally with the tracking force:

Too high:

The sound is distorted and the tonearm slides toward the outside of the record.

Too low:

The tonearm slides the inside of the record when the stylus descends onto the record.

- **The tracking force must be adjusted within the correct tracking force range of the cartridge.**

The following trouble is apparent when the tracking force is not properly adjusted:

Excessive tracking force:

The sound is distorted and the cartridge itself touches the record.

Insufficient tracking force:

The sound is distorted and interrupted.

- **The tracking force must be adjusted with the ANTI-SKATE control at [0].**

Unless this control is set to the [0] position, a force is generated by the anti-skating mechanism which pulls the tonearm to the right (toward the arm rest). Therefore, when attaining the horizontal balance, the tonearm is not at rest and so the operation is difficult to perform.

Even at the [0] position there may be some movement. This is due to the increased rotational sensitivity of the tonearm enabling the stylus to trace efficiently the sound grooves on the record, and it does not indicate that there is anything wrong with the turntable.

Check the installation and connections of the turntable.

- **Connection must be made to the amplifier's PHONO MM terminals. (For HE, HB, HP, S and S/G models)**

The cartridge supplied is an MC (moving coil) type although it has virtually the same high output as the output voltage of an MM (moving magnet) cartridge. The output cord should, therefore, be connected to the MM input terminals. If connection is made to the MC terminals, the sound may be indistinct or distorted and the cartridge will not be able to do full justice to its performance.

- **Make the connection to the terminals on the amplifier that correspond to the type of cartridge being used. (For KUT and KCT models)**

Connect to the PHONO MM terminals for an MM (moving magnet) type.

Connect to the PHONO MC terminals for an MC (moving coil) type.

- **When using a cartridge other than that supplied:**

Consult the Operating Instructions of the cartridge and stereo amplifier and proceed.

- **Incorrect connections of installation will lead to trouble.**

If the equipment is connected improperly, no sound will be heard. If the output cord plugs are not inserted as far as they will go or if the ground wire is not connected, a humming noise will be heard through the speakers.

If the turntable is installed at an angle, the tonearm will slide on the record and the sound will be distorted. If vibrations are transmitted to the turntable, the sound may be discontinuous or it may tremble, and in some cases howl (a prolonged wailing sound from the speakers) may be heard.

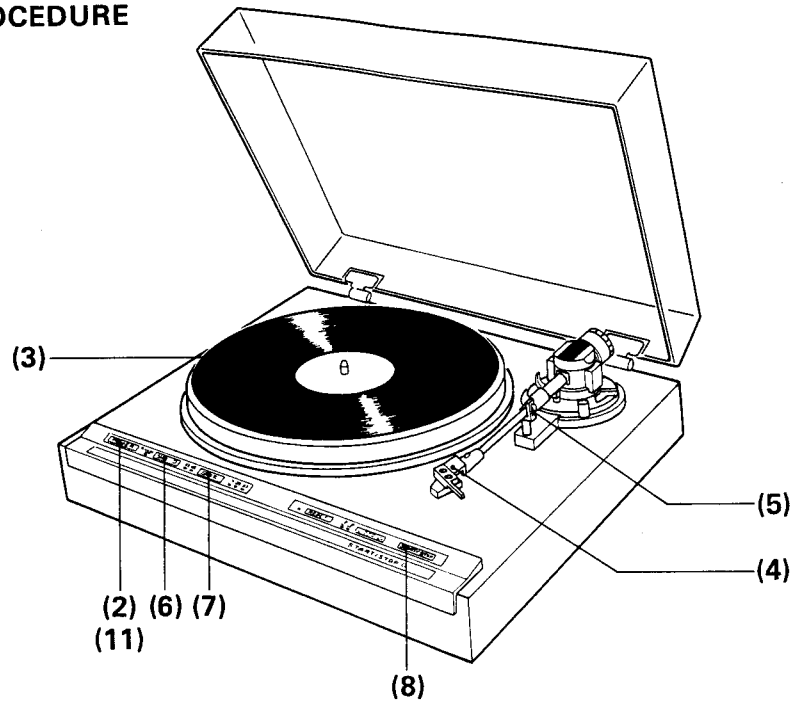
- **The connecting cords should be given some slack.**

Check that none of the connecting cords are pulled taut after they have been connected. Tautness may lead to cord disconnections and howl.

ENGLISH

RECORD PLAY

RECORD PLAY PROCEDURE
(Auto Play)



(1) Set the stereo amplifier up for record play.

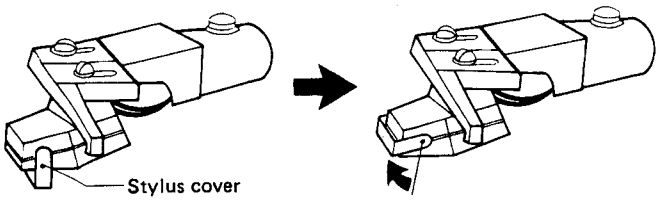
For details, refer to the Operating Instructions of the stereo amplifier.

(2) Press the unit's POWER switch to ON.

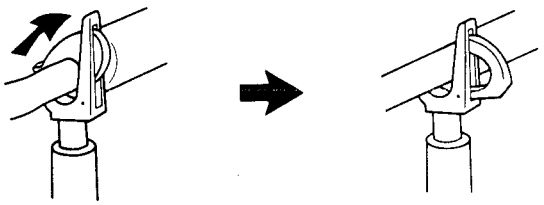
Press the switch to the ON (depressed position).

(3) Place the record onto the platter.

(4) Lift up the stylus cover and expose the stylus tip.



(5) Release the tonearm.



(6) Press the SPEED switch and set the speed:

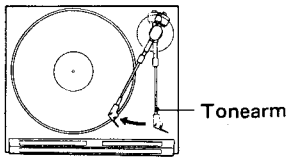
[33] indicator lights for playing 33-1/3 rpm records.
[45] indicator lights for playing 45 rpm records.

(7) Press the RECORD SIZE switch and set the size of the record:

[12"30] indicator lights for playing 30 cm (12") records.
[10"25] indicator lights for playing 25 cm (10") records.
[7"17] indicator lights for playing 17 cm (7") records.

(8) Press the START/STOP switch to start record play.

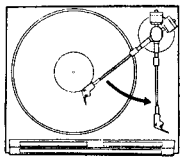
Several seconds after this switch has been depressed, the platter starts to rotate and the tonearm automatically moves across to the record. Record play begins.



(9) Adjust the volume and tone using the controls on the stereo amplifier.

(10) Record play ends.

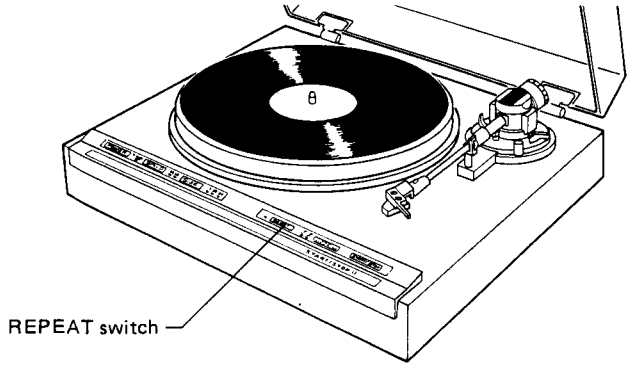
The tonearm automatically returns to the arm rest and the platter stops rotating.



(11) Release the POWER switch to the OFF position.

REPEAT PLAY

One side of the record is repeatedly played automatically.



(1) Perform steps (1) through (9) of RECORD PLAY PROCEDURE and start auto play.

(2) Press the REPEAT switch to the ON position.

Make the indicator light.

(3) Play ends. Play is repeated.

When the last track is played, the tonearm automatically returns to the first track and play is repeated. Play is repeated until the repeat play mode is released.

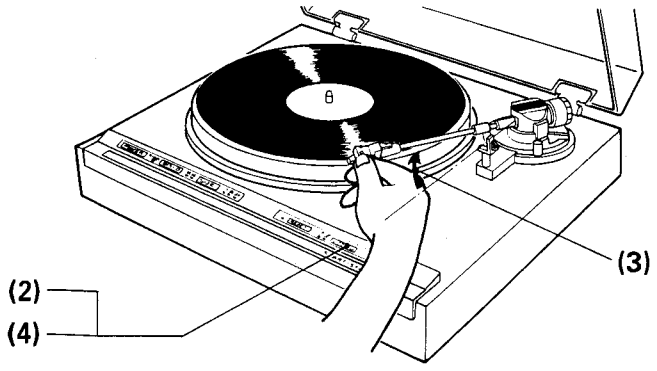
■ How to release repeat play.

Press the REPEAT switch once again; the repeat play will be cancelled (the indicator light will go out), and the turntable will revert to its AUTO PLAY function. Pressing the START/STOP switch in the middle of play will also cancel the repeat function.

MANUAL PLAY

Proceed with manual play in the following circumstances:

- **When starting play at any track except the first.**
- **When the size of the record is not standard which makes auto play impossible.**



(1) Perform steps (1) through (6) of the RECORD PLAY PROCEDURE.

(2) Press the ARM ELEVATION switch will raise the tonearm.

(3) Move the tonearm.

Hold the headshell with your hand and move the tonearm so that the stylus is positioned above the track you want to hear.

- The platter starts to rotate.
- The stylus remains floating above the record and so no sound is heard yet.

(4) Press the ARM ELEVATION switch and start record play.

The stylus now descends onto the record and play begins.

(5) Adjust the volume and tone using the controls on the stereo amplifier.

(Upon completion of record play, the tonearm returns automatically to the arm rest.)

OPERATIONS FOR STOPPING PLAY

When stopping play in the middle of a record

(1) Press the START/STOP switch.

Several seconds after this switch is set, the tonearm automatically returns to the arm rest and the platter stops rotating.

(2) Release the POWER switch to the OFF position.

When suspending play temporarily

(1) Press the ARM ELEVATION switch.

The stylus rises from the surface of the record and play stops (but the platter continues rotating).

NOTE:
When the tonearm is returned manually to the arm rest, the platter stops rotating.
After the tonearm has been returned manually to the arm rest, always remember to set the ARM ELEVATION switch to the (▼) indicator light position.

(2) Press the ARM ELEVATION switch again.

The stylus descends onto the record and play begins again.

ENGLISH

RECORD PLAY PRECAUTIONS

- **When the tonearm does not descend at the proper place on the record.**

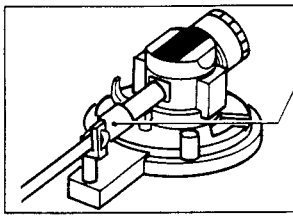
When during auto play the tonearm does not move as far as the record or if it moves too far and play starts from a position further across the record, refer to "Adjusting the stylus descent position" and adjust.

- **When the tonearm does not return automatically.**

If a record with a non-standard size is being played, the tonearm may not return even after play or it may return before the completion of play. In cases like this, press the START/STOP switch and the record play is concluded automatically.

- **Clean the stylus and records before and after play.**

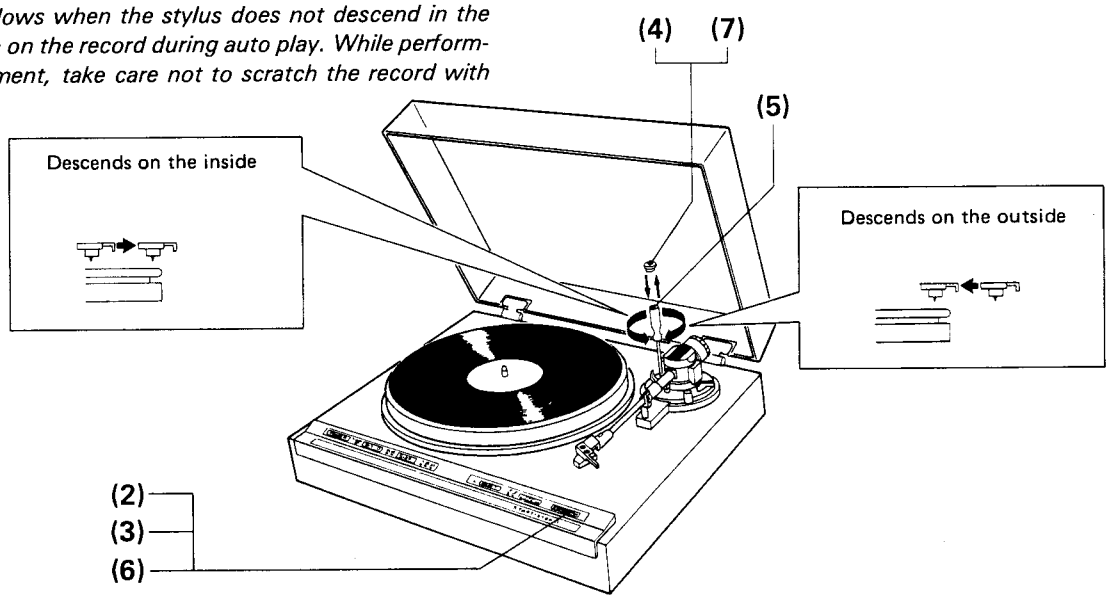
Dust or dirt on the stylus or records will result in distorted and discontinuous sound.
Remove the dust on the stylus with a soft-brush. Use a good quality record cleaner obtainable from your dealer to remove dust and dirt on your records.



This dynamic resonance absorber (DRA) is designed to make the most of the tonearm's performance. It should not be forcibly rotated or pulled.

ADJUSTING THE STYLUS DESCENT POSITION

Proceed as follows when the stylus does not descend in the proper position on the record during auto play. While performing the adjustment, take care not to scratch the record with the stylus.



(1) Perform steps (1) through (7) of the RECORD PLAY PROCEDURE.

(Place a 30 cm LP record on the platter.)

(2) Press the START/STOP switch and start auto play.

Check the direction and amount of stylus deviation (how many millimeters toward the inside or outside of the record's lead-in groove).

(3) Press the START/STOP switch and return the tonearm to the arm rest.

(4) Once the platter has stopped rotating, remove the rubber cap from the adjustment hole.

(5) Rotate the screw with a small screwdriver in accordance to the direction of the deviation observed in step 2.

- Every semi-turn of the screw corrects the stylus descent position by about 18 mm.
- Rotate the screw clockwise if the stylus descends on the outside of the proper position.
- Rotate the screw counterclockwise if the stylus descends on the inside of the proper position.

(6) Check the adjustment.

After the adjustment, press the START/STOP switch and check that the stylus stops at the lead-in groove on the outer circumference of the record.
If the position is still not correct, repeat steps (3) and (5).

(7) Replace the rubber cap in the adjustment hole once the platter has stopped rotating.

MAINTENANCE

REPLACING THE STYLUS

- **The service life of the stylus on the cartridge supplied ranges from 800 to 1,000 hours.**
  (If the stylus is used for 1 or 2 hours every day, it will last for one or two years.)

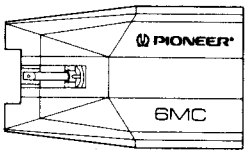
Using a worn or damaged stylus can damage the record and distort the sound reproduced. Remember to replace the stylus at the earliest possible date.

- **Always use the PIONEER "PN-6MC" as the replacement stylus.**

The cartridge used in this turntable was developed by PIONEER and so the specially designed replacement stylus should be used. It can be purchased at your PIONEER dealer.

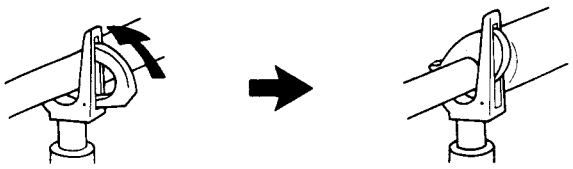
- **Always obtain the genuine PIONEER replacement stylus.**

PIONEER is not able to safeguard against deterioration in performance or possible mechanical trouble if a replacement stylus of another make is used. A genuine PIONEER replacement stylus always comes with the PIONEER mark. Check that this mark is on the stylus before purchasing it.



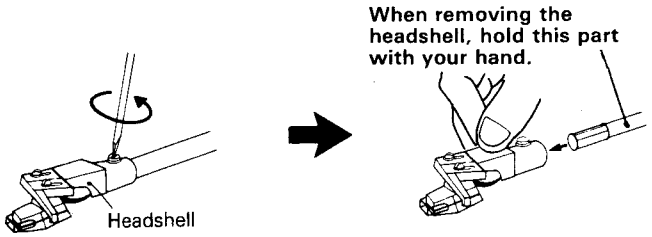
REPLACING THE STYLUS PROCEDURE

1. Anchor the tonearm to the arm rest.



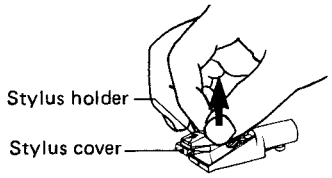
2. Remove the headshell from the tonearm.

Use a small screwdriver to rotate the anchoring screw in the direction indicated by the arrow to remove the headshell.

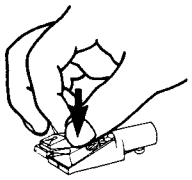


3. Remove the stylus from the cartridge.

(This operation should be performed with the stylus cover removed and the stylus itself exposed.)
Hold the stylus holder and pull the stylus gently in the direction indicated by the arrow.

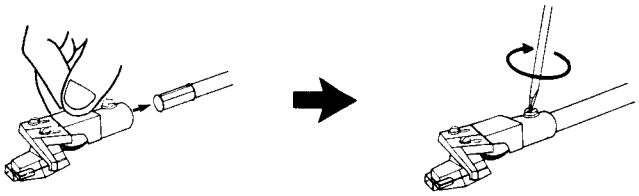


4. Attach the new stylus holder to the cartridge.



5. Mount the headshell onto the tonearm.

Follow the procedure of section 2 in reverse. Push the headshell as far as it will go and then secure it.



MAINTAINING THE TURNTABLE

- **When the cabinet is dirty or dusty.**

Use a polishing cloth or a dry soft cloth to clean off the dirt and dust.

- **When the cabinet is stained.**

Dip a soft cloth into neutral detergent diluted with five or six times the amount of water, wring the cloth out and clean off the stains. Next, wipe off all the remaining moisture with a dry soft cloth.

- **Do not use chemicals or furniture wax.**

Never use furniture wax, cleaners, thinners or benzene for cleaning since these will mar and discolor the surface finish of the cabinet.

- **Do not spray with insecticides.**

If insecticide sprays are allowed to come into contact with the surface of the cabinet, the surface may be discolored and the finish spoiled.

ENGLISH

MAINTAINING THE STYLUS

- **Use a soft brush**

Move the brush toward you to clear off the dust and dirt. Do not use your finger since this will damage the stylus.

- **When the dirt cannot be removed by a brush**

Obtain some stylus cleaner from your dealer and remove. Do not allow any of the liquid to come into contact with the plastic parts as they may dissolve.

MAINTAINING YOUR RECORDS

- **Use a good-quality record cleaner**

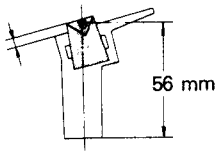
Cleaning records with a dry cleaner (velvet or nylon brush) may charge the records with static and generate noise. Dry cleaners and static removal sprays are more effective in getting rid of dust.

CONDENSATION

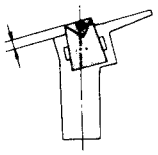
When this turntable is brought into a warm room from previously cold surroundings or when the room temperature rises sharply, condensation may form inside and the unit may not do full justice to its performance. In cases like this, allow the unit to stand for about an hour or raise the room temperature gradually.

CARTRIDGE REPLACEMENT

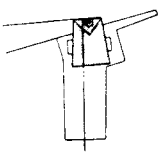
- Any cartridge besides that supplied having a weight of between 3 and 8 g may be used with this turntable.
- The polarities of the accessory headshell's leads are as shown below. Align them properly.
  Red: Right channel (R)
  Green: Right channel ground (RG)
  White: Left channel (L)
  Blue: Left channel ground (LG)
- The overhang of the tonearm is 15 mm.
  When using the accessory headshell, the overhang can be adjusted when the stylus and connector dimensions are set to 56 mm.



(Acceptable mounting)
Must be mounted in parallel



(Unacceptable mounting)
Cartridge is bent



- After having replaced the cartridge,perform the tracking force and anti-skating adjustments again.

ADJUSTING THE TONEARM HEIGHT

Adjust when the tonearm is not parallel to the record when the stylus is placed on the record.
(Care should be taken when using any cartridge except that supplied since the sound may be distorted.)

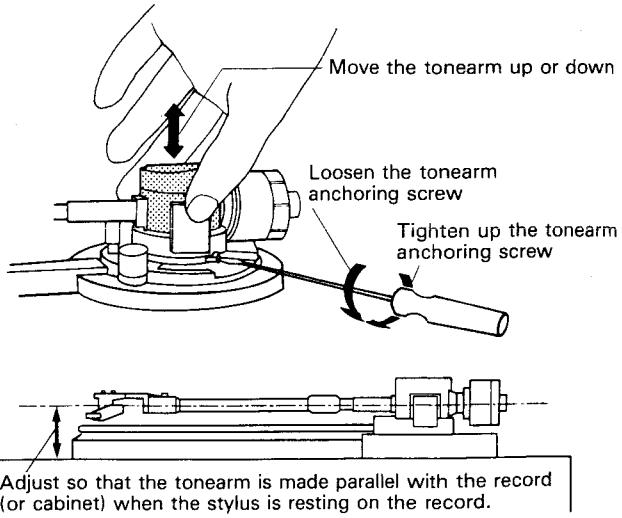
(1) Move the tonearm, place the stylus on the record and check the height.

(2) Return the tonearm to the arm rest.

(3) Loosen the tonearm anchoring screw using a medium-sized slot-head screwdriver.

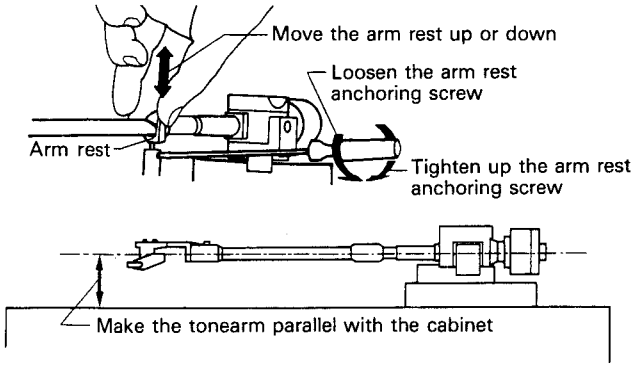
(4) Hold the part marked " ▒▒ " in the figure, move it up or down, adjust it so that the tonearm is made parallel with the record and then tighten up the tonearm anchoring screw.

(5) Move the tonearm, place the stylus on the record and check that it is parallel with the record. If it is still not parallel, repeat steps [2] through [4].


Move the tonearm up or down
Loosen the tonearm anchoring screw
Tighten up the tonearm anchoring screw
Adjust so that the tonearm is made parallel with the record (or cabinet) when the stylus is resting on the record.

(6) Clamp the tonearm to the arm rest and loosen the arm rest anchoring screw with a small slot-head screwdriver.

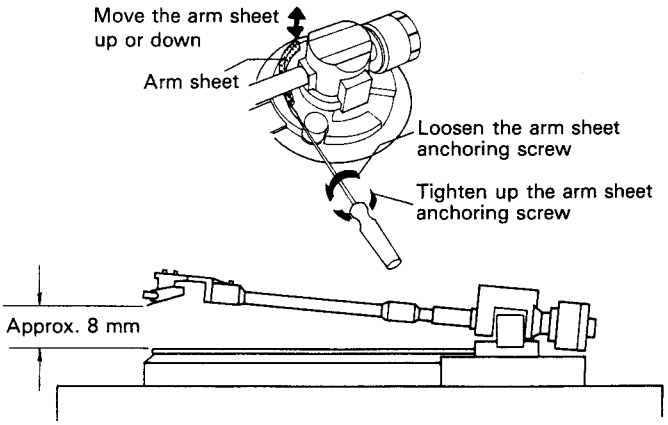
(7) Move the arm rest up or down, adjust it so that the tonearm is parallel with the cabinet and then tighten the arm rest anchoring screw.


Move the arm rest up or down
Loosen the arm rest anchoring screw
Arm rest
Tighten up the arm rest anchoring screw
Make the tonearm parallel with the cabinet

(8) Press the ARM ELEVATION switch and make the [▼] indicator light.

(9) Loosen the arm sheet anchoring screw using a small slot-head screwdriver.

(10) Move the arm sheet up or down, adjust it so that the clearance between the stylus tip and record is made approximately 8 mm and then tighten up the arm sheet anchoring screw.


Move the arm sheet up or down
Arm sheet
Loosen the arm sheet anchoring screw
Tighten up the arm sheet anchoring screw
Approx. 8 mm

ENGLISH

SPECIFICATIONS

Motor and Turntable

Drive System ..... Direct-drive
Motor ..... Quartz PLL Hall motor
Turntable Platter ..... 310 mm diam. aluminum alloy die-cast
Speeds ..... 33-1/3 and 45 rpm
Wow and Flutter ..... Less than *0.012% (WRMS)
0.025% (WRMS)
±0.035% WTD Peak (DIN)
Values marked with an "*" designate the wow and flutter for motor, and do not include the cartridge or tonearm load.
Signal-to-Noise-Ratio ..... More than 80 dB (DIN-B)
(with Pioneer cartridge model PC-6MC)

Tonearm

Type ..... Static-balance type, Straight pipe arm
Effective Arm Length ..... 235 mm
Overhang ..... 15 mm
Usable Cartridge Weight ..... 3 g (min.) to 8 g (max.)

PC-6MC Specifications

Type ..... Moving coil type
Stylus ..... 0.3 x 0.7 mil diamond (PN-6 MC)
Output Voltage ..... 2.2 mV
(1 kHz, 5 cm/s LAT. Peak)
Tracking Force ..... 1.7 g to 2.3 g (proper 2 g)
Frequency Response ..... 10 to 35,000 Hz
Recommended Load ..... 50 kΩ
Weight ..... 3.3 g

Subfunctions

Auto lead in, Auto return, Auto cut, Repeat, Quick play, Quick stop, Anti-skating, Arm elevation, Tracking-force direct-read-out, Tonearm height adjusting device (± 3 mm), Insulator height adjusting device, Free stop hinges.

Miscellaneous

Power Requirements
HE, HB, HP models ..... AC 220 V/240 V
(switchable), 50, 60 Hz
KUT, KCT models ..... AC 120 V, 60 Hz
S, S/G models ..... AC 110 V/120 V/220 V/240 V
(switchable), 50, 60 Hz
Power Consumption
HE, HB, HP models 9W
KUT, KCT models 10W
S, S/G models 7W
Dimensions ..... 460 (W) x 164 (H) x 409 (D) mm
18-1/8 (W) x 6-1/2 (H) x 16-1/8 (D) in.
Weight ..... 8.1 kg/17 lb 14 oz

Accessories

EP Adapter 1
Operating Instructions 1
Catridge mounting parts (For KUT and KCT models)
Screws (L) 2
Screws (M) 2
Screws (S) 2
Washers 2
Nuts 2

NOTE:
Specifications and design subject to possible modification without notice, due to improvements.

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with your turntable, check out the points below. Sometimes, the trouble may lie in another component. Investigate the stereo amplifier, speaker systems and other electrical apparatus which are being used.
If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Possible cause	Remedy	Page no.
Platter does not rotate.	• Power plug is disconnected from outlet.	• Connect to stereo amplifier or wall outlet.	8
	• Stereo amplifier's power switch is OFF when unit's power plug has been plugged into SWITCHED outlet coupled to stereo amplifier's power switch.	• Set stereo amplifier's power switch to ON.	—
No sound.	• Improper output cord connections.	• Connect properly to stereo amplifier.	8
	• Dirty output cord pin plugs or stereo amplifier input jacks.	• Clean away dirt.	—
	• Improper cartridge and stylus or headshell and tonearm mounting.	• Secure properly.	13
	• Incorrect stereo amplifier operation.	• Check positions of stereo amplifier's switches.	—
Noise or scratch noise. (crackling sound is heard)	• Dust or dirt on record surface.	• Clean record with cleaner.	14
	• Warped record or scratches on record.	• Replace record.	—
Intermittent sound.	• Incorrect tracking force.	• Apply tracking force commensurate with cartridge.	7, 8
	• Excessive anti-skating.	• Apply value commensurate with cartridge.	8
	• Cartridge mounting is bent.	• Correct bending.	14
	• Dirty output cord pin plugs or stereo amplifier input jacks.	• Clean away dirt.	—
Distorted sound.	• Dust or dirt on cartridge stylus.	• Clean stylus with brush.	14
	• Worn cartridge stylus.	• Replace stylus.	13
	• Dust or dirt on record surface.	• Clean record with cleaner.	14
	• Warped record or scratches on record.	• Replace record.	—
Howl (prolonged wailing sound heard through speakers when volume is turned up during play).	• Vibrations from speaker systems are being transmitted from floor to the record or cartridge.	• Place the turntable at a distance from speakers.	—
		• Place the turntable on a sturdy stand.	—
	• Sound pressure of speaker systems is being transmitted to cartridge directly.	• Try changing installation location of turntable.	—
Humming noise (heard from speaker systems).	• Improper output cord or ground wire connections.	• Connect output cords and ground wire properly to stereo amplifier.	8
	• Improper tonearm and headshell mounting.	• Secure properly.	13
	• Effects of magnetic flux leakage being felt from stereo amplifier's power transformer, etc.	• Try changing position of stereo amplifier and turntable.	—
Odd sound tempo.	• SPEED switch position does not match rated record speed.	• Set switch to position corresponding to rated record speed (33 or 45).	5, 10
No auto lead-in (tonearm does not move with auto play)	• Tonearm is anchored to arm rest.	• Release arm rest.	10
Stylus does not descend onto correct position during play.	• Stylus descent position deviates.	• Adjust position properly.	12
	• Special record is being used.	• Replace record.	—
		• Play record in manual mode.	11
	• RECORD SIZE switch is not at correct position.	• Set switch to position that agrees with record size.	5, 10